

CLAIMS

1. A method for producing optically active flurbiprofen which comprises:

5 mixing racemic flurbiprofen and (S)- or (R)-3-methyl-2-phenylbutylamine in an organic solvent to produce a diastereomeric salt; and
treating the diastereomeric salt with an acid in a second solvent.

10 2. The method according to claim 1, wherein in the step of producing a diastereomeric salt, (S)-3-methyl-2-phenylbutylamine is used.

15 3. The method according to claim 1 or 2, wherein the organic solvent is at least one solvent selected from the group consisting of C₁ to C₃ alcohol, toluene, and xylene.

4. The method according to any one of claims 1 to 3, wherein the organic solvent is a water-containing solvent.

20 5. The method according to any one of claims 1 to 4, wherein the water-containing solvent is an organic solvent that contains water at a ratio of 20 v/v% or less.

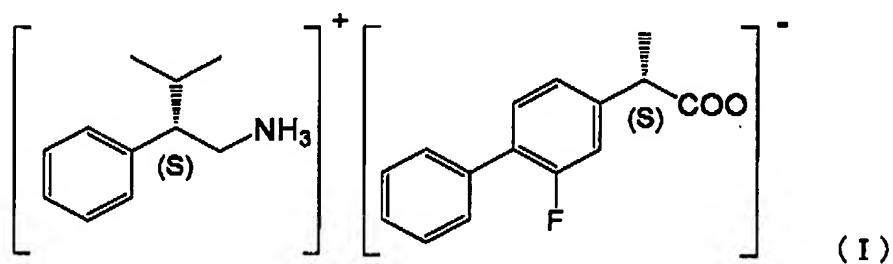
25 6. The method according to any one of claims 1 to 5, wherein the second solvent is a hydrophobic solvent or water.

7. A diastereomeric salt obtained by mixing (S)- or

(R)-3-methyl-2-phenylbutylamine and racemic flurbiprofen in an organic solvent.

8. The diastereomeric salt according to claim 7, wherein the 5 3-methyl-2-phenylbutylamine has an S-configuration.

9. A diastereomeric salt represented by the following formula (I):



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10. A diastereomeric salt represented by the following formula (II):

